

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: FAIL-SAFE

Report Number: P973381

Luminaire Tested: FLR2-14-30-L835-CP250

Issue Date: 3/13/2025

Test Information

Test Method: LM-79-2019
Report Number: P973381
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-281-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/13/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: FAIL-SAFE
Catalog Number: FLR2-14-30-L835-CP250
Description: 1*4 FLR-2.0 3000 LUMEN at 3500 CCT & 80CRI Clear Polycarbonate (0.250" thickness)

Light Source:
Ballast/Driver: -

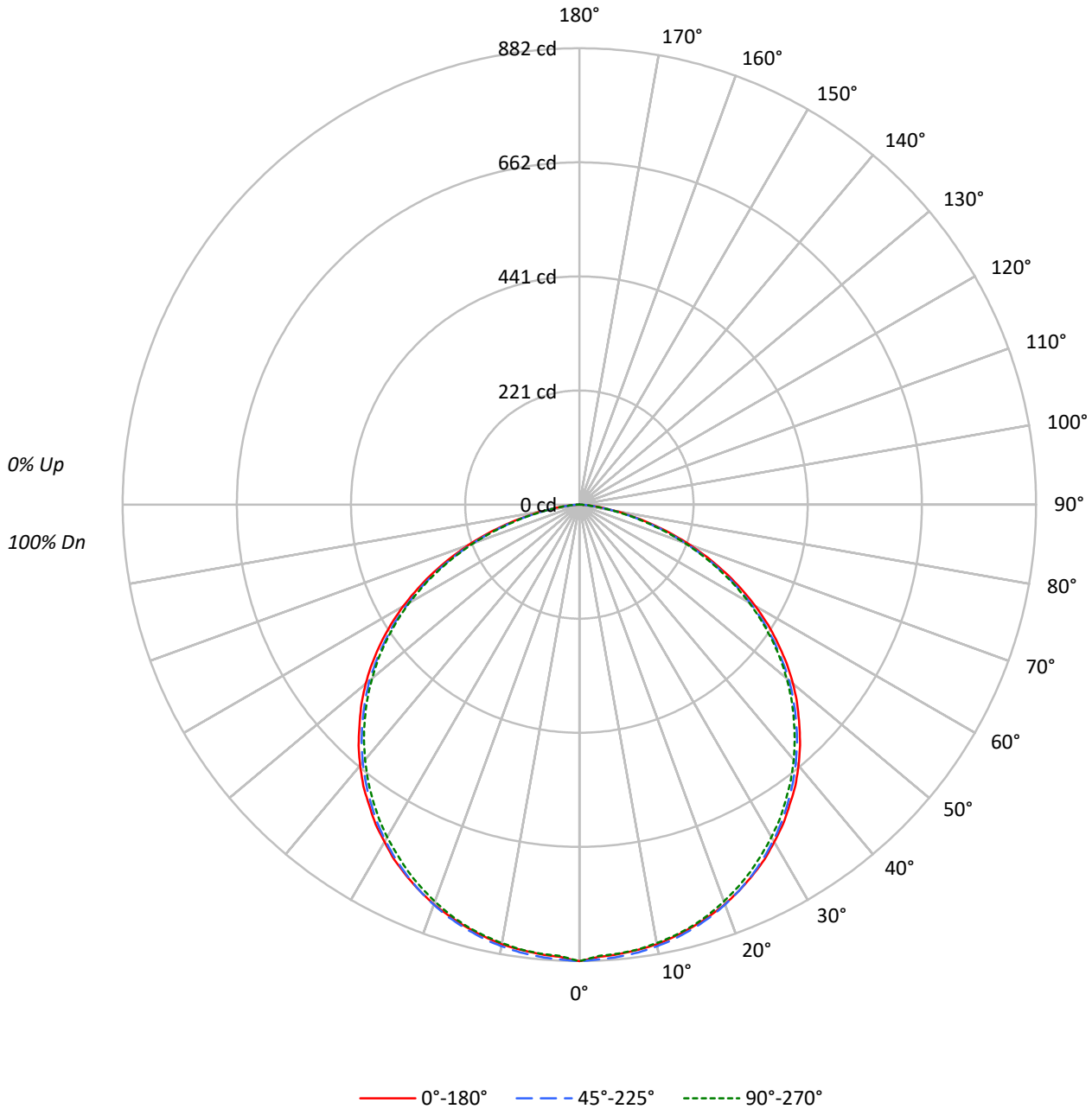
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2469.7 lumens
Efficiency: N/A
Efficacy: 103.3 lumens/watt
Spacing Criteria (0/90/45): 1.27 / 1.25 / 1.38
Luminous Opening: Rectangular (W 1' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 23.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor:
Total Harmonic Distortion (THDi):
Frequency (hertz): 60
Stabilization Time: HR
Operation Time: HR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P973381
CATALOG NUMBER: FLR2-14-30-L835-CP250

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
RC	80									70									50									30									10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0														
RCR																																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100						100														
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85						85														
2	99	91	85	79	97	90	83	78	86	81	76	83	78	75	80	76	73	71						71														
3	91	80	72	66	88	79	71	65	76	69	64	73	68	63	70	66	62	60						60														
4	83	71	62	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51						51														
5	76	64	55	48	74	62	54	48	60	53	47	58	52	47	57	51	46	44						44														
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39						39														
7	65	52	43	37	64	51	43	37	49	42	37	48	41	36	47	41	36	34						34														
8	61	47	39	33	59	47	38	33	45	38	33	44	37	32	43	37	32	30						30														
9	57	43	35	30	55	43	35	30	42	34	29	41	34	29	40	34	29	27						27														
10	53	40	32	27	52	39	32	27	38	32	27	38	31	27	37	31	26	25						25														

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	2375	2375	2375
5°	2356	2370	2353
10°	2358	2368	2351
15°	2354	2364	2349
20°	2354	2357	2338
25°	2349	2344	2323
30°	2339	2329	2306
35°	2326	2308	2286
40°	2313	2285	2262
45°	2285	2253	2229
50°	2255	2214	2188
55°	2198	2147	2127
60°	2113	2054	2037
65°	1979	1921	1900
70°	1784	1713	1699
75°	1496	1420	1405
80°	1086	1013	986
85°	574	506	463

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 2285 cd/sqm



TEST NUMBER: P973381
 CATALOG NUMBER: FLR2-14-30-L835-CP250

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	83.6	3.4
10°-20°	240.0	9.7
20°-30°	364.7	14.8
30°-40°	441.1	17.9
40°-50°	458.4	18.6
50°-60°	410.5	16.6
60°-70°	299.4	12.1
70°-80°	147.4	6.0
80°-90°	24.7	1.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	688.3	27.9
0°-40°	1129.4	45.7
0°-60°	1998.3	80.9
0°-90°	2469.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2469.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	882	882	882	882	882	
5°	872	882	877	886	871	83
15°	845	853	848	856	843	239
25°	791	795	790	793	782	365
35°	708	710	703	706	696	444
45°	600	600	592	593	586	464
55°	469	465	458	456	453	418
65°	311	307	302	300	298	307
75°	144	141	137	135	135	153
85°	19	18	16	15	15	27
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	882.4	882.4	882.4	882.4	882.4
2.5°	874.7	884.6	879.8	888.6	872.9
5°	872.2	881.7	877.3	885.7	871.1
7.5°	867.8	877.7	872.9	880.9	867.1
10°	863.0	871.8	866.7	874.7	860.5
12.5°	854.6	863.4	858.7	866.0	852.8
15°	845.1	852.8	848.4	855.7	843.3
17.5°	834.2	841.5	836.7	843.3	830.9
20°	822.1	828.0	822.9	828.3	816.3
22.5°	807.2	812.6	807.2	810.8	800.2
25°	791.1	795.1	789.6	793.3	782.3
27.5°	773.9	776.1	770.6	773.6	762.2
30°	752.7	755.3	749.5	753.1	742.2
32.5°	732.3	733.8	727.2	730.1	720.2
35°	708.2	709.6	702.7	705.6	695.8
37.5°	685.2	684.8	677.5	679.3	670.9
40°	658.5	658.1	650.5	651.9	643.9
42.5°	631.1	629.7	622.4	623.1	615.8
45°	600.4	599.7	592.0	593.1	585.8
47.5°	570.9	568.7	561.0	561.4	555.2
50°	538.7	535.4	528.9	528.1	522.6
52.5°	504.4	500.7	493.4	492.7	488.7
55°	468.6	464.6	457.6	456.5	453.3
57.5°	431.7	426.6	421.1	418.9	416.4
60°	392.6	387.9	381.7	379.5	378.4
62.5°	352.1	347.3	342.6	340.4	338.9
65°	310.8	307.2	301.7	299.5	298.4
67.5°	268.8	265.5	260.4	257.9	257.5
70°	226.8	223.5	217.7	216.2	215.9
72.5°	184.8	181.9	176.4	174.9	174.9
75°	143.9	141.3	136.6	135.1	135.1
77.5°	105.2	103.0	99.3	97.5	97.5
80°	70.1	68.7	65.4	63.9	63.6
82.5°	40.5	39.8	36.9	35.4	36.2
85°	18.6	17.9	16.4	14.6	15.0
87.5°	4.7	4.4	3.3	2.6	3.3
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)